09348865 "070799

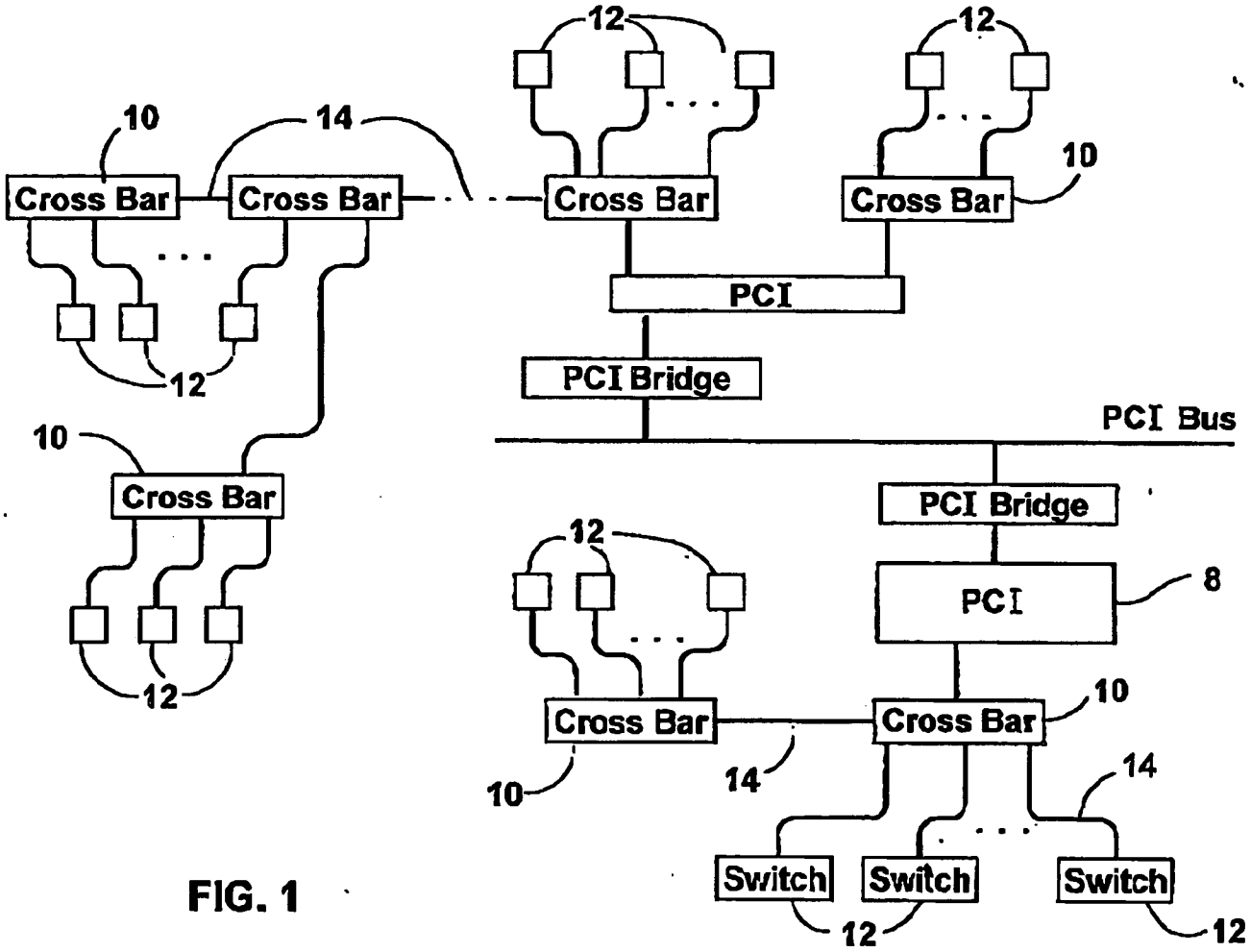

FIG. 1

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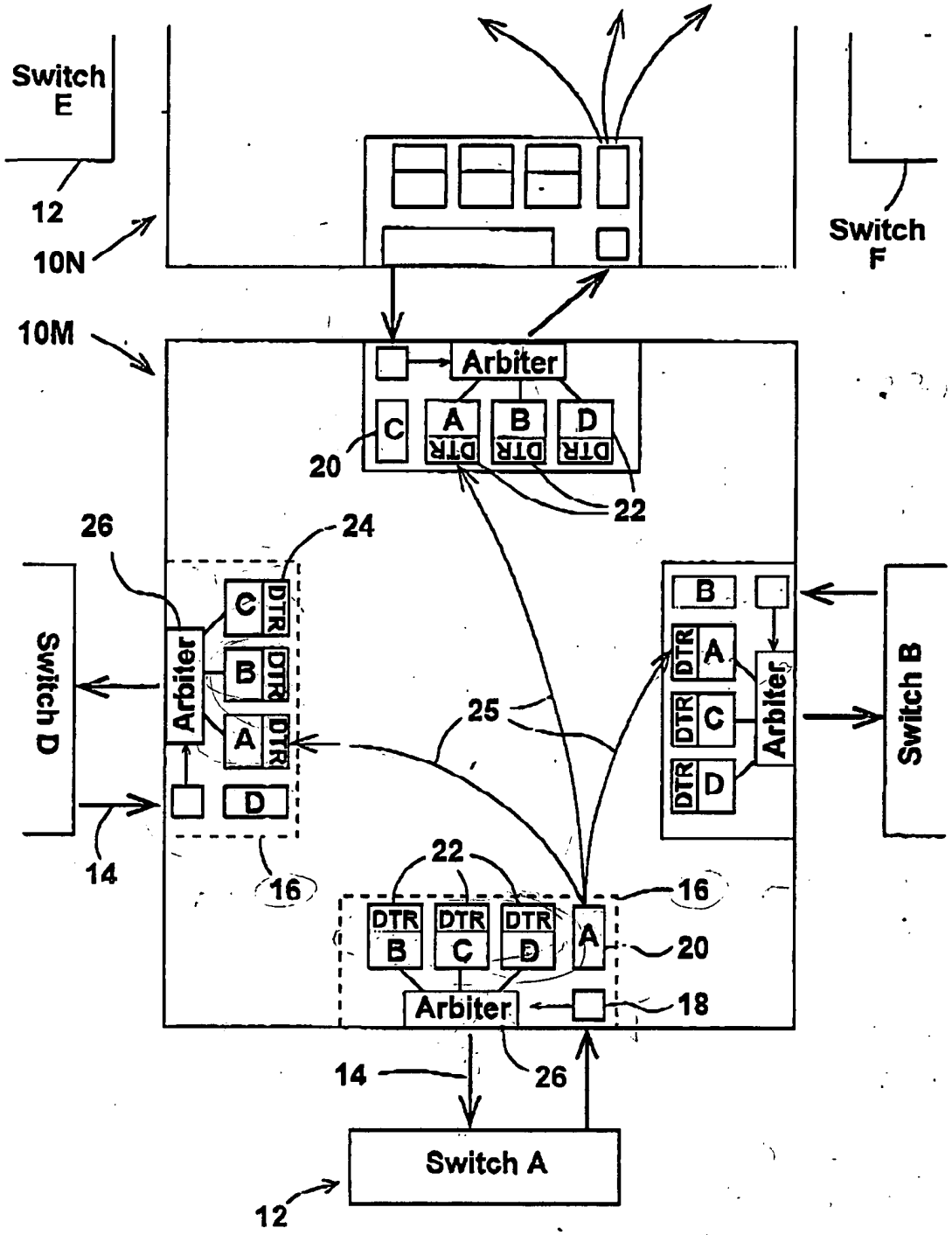
Switch E
12
10N
Switch F
10M
Arbiter
C
A DTR
B DTR
D DTR
20
22
26
24
Switch D
Arbiter
C DTR
B DTR
A DTR
D
14
16
25
B
A DTR
C DTR
D DTR
Arbiter
Switch B
22
16
DTR B
DTR C
DTR D
A
20
Arbiter
18
14
26
Switch A
12

FIG. 2

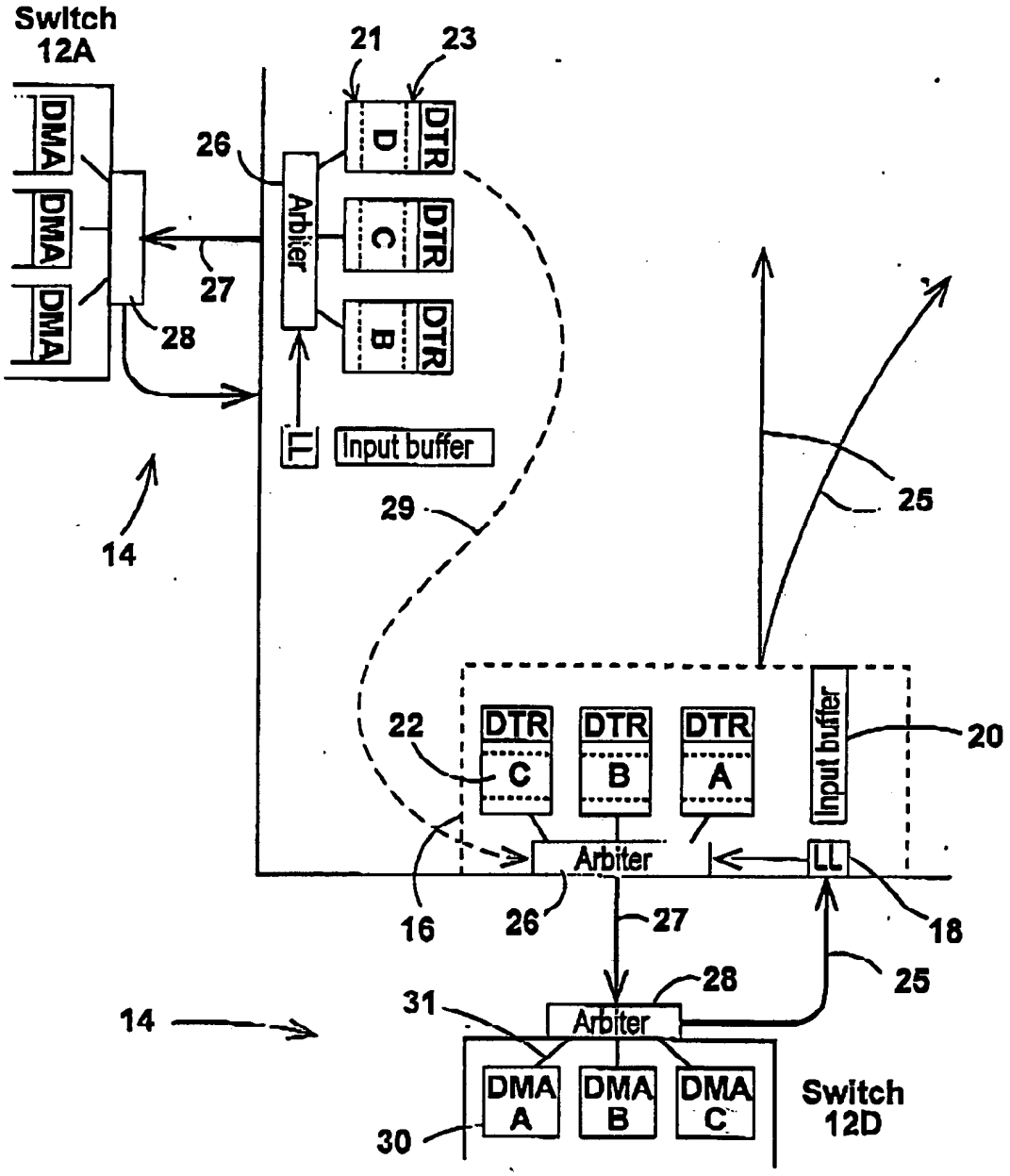
Switch
12A
DMA
DMA
DMA
21
23
D
DTR
C
DTR
B
DTR
26
Arbiter
27
28
LL
Input buffer
14
29
25
22
DTR
C
DTR
B
DTR
A
Input buffer
20
Arbiter
LL
16
26
27
18
28
25
31
14
Arbiter
DMA
A
DMA
B
DMA
C
Switch
12D
30

FIG. 3

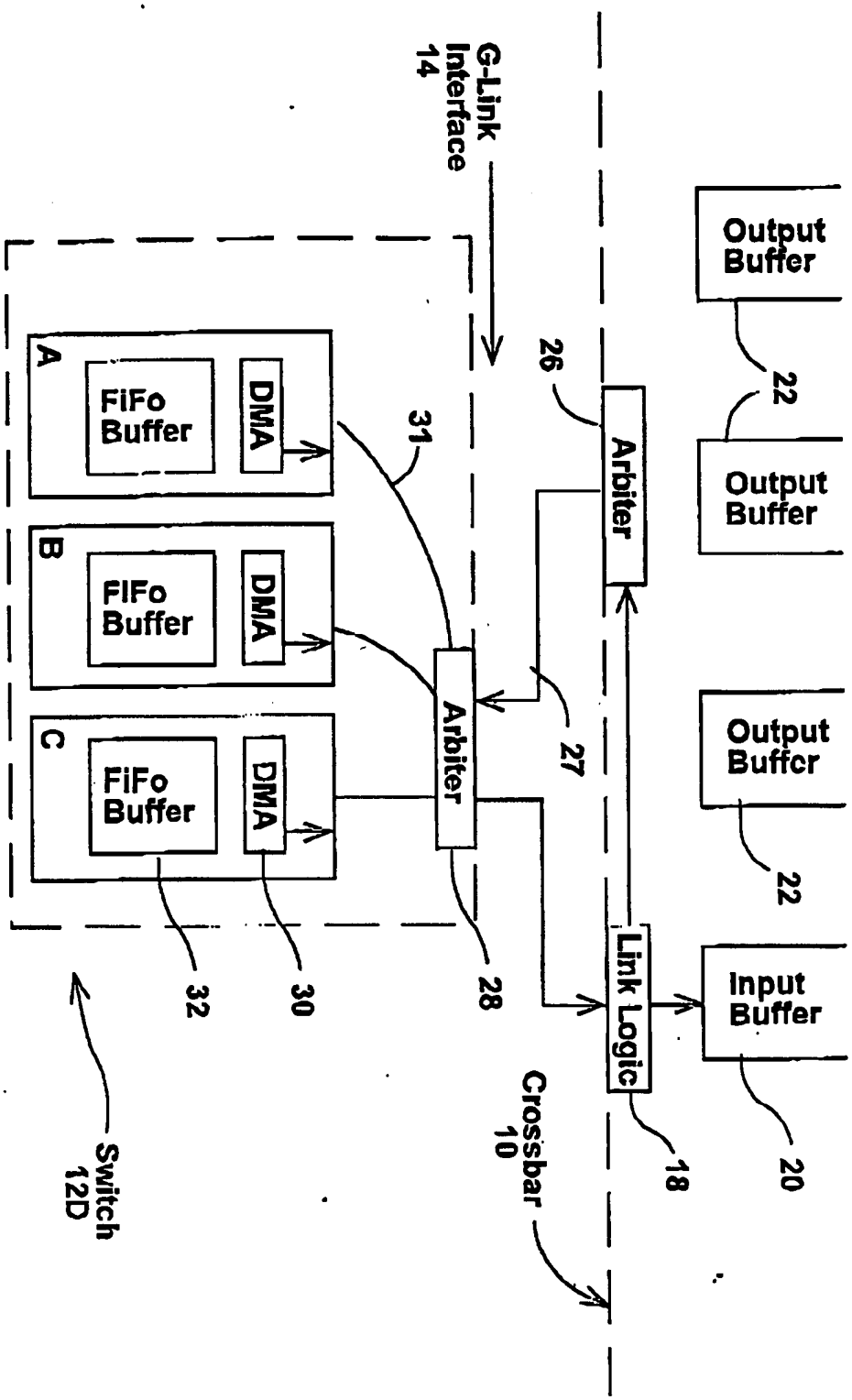

FIG. 4

09348865-070799

09/398,508 09/09/99

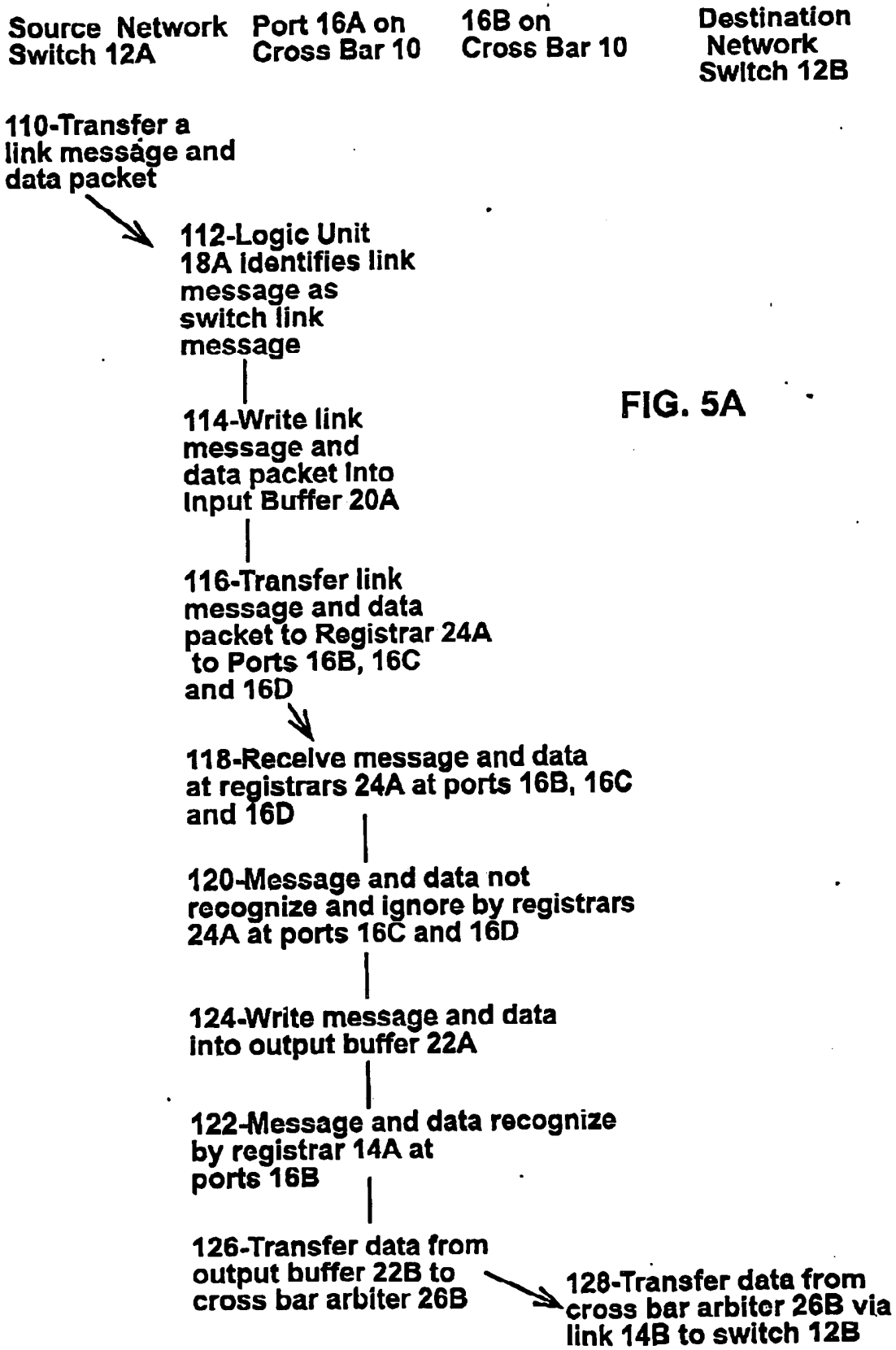

FIG. 5A

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09/08/99 "5966560

Source Network Switch 12A	Port 16A on Cross Bar 10	16B on Cross Bar 10	Destination Network Switch 12B

130-Switch 12B full. Transfer local link message to logic unit 18B

FIG. 5B

132-Logic unit 18B indicates to cross bar arbiter 26B to cut off incoming data to switch 12B

134-Output buffer 22A temporarily stores unsendable data

136-Output buffer 22A reaches "fullness"

138-Output buffer 22A notifies cross bar arbiter 26A of full status

140-Cross bar 26A notifies switch arbiter 28A at switch A not to send more data

142-DMA 30B stops sending to switch 12B

143-Switch buffer 32B temporarily stores messages and data

144-Switch 12B less full. Transfer local link message to logic unit 18B

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EXHIBIT 1008

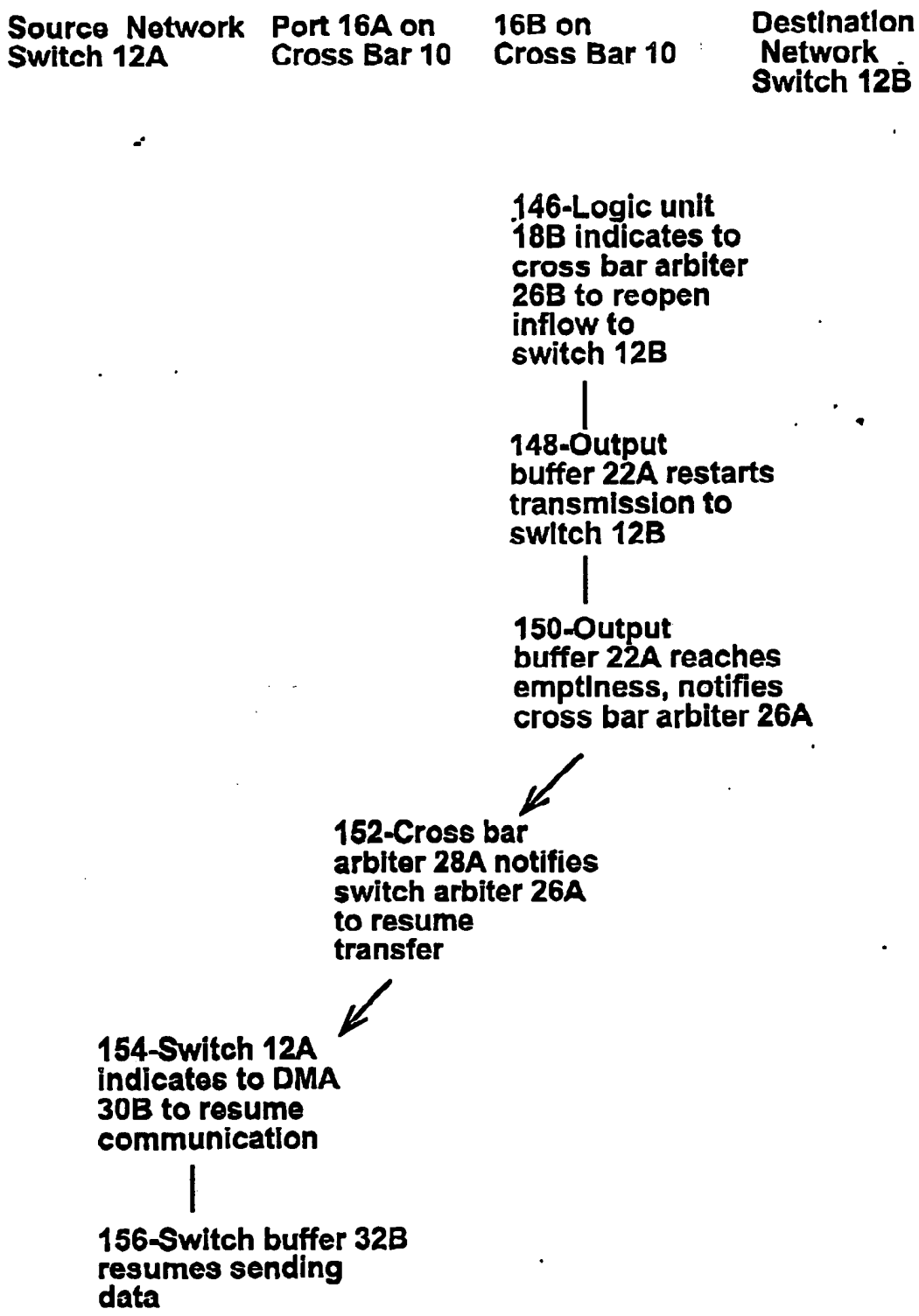

FIG. 5B Continued

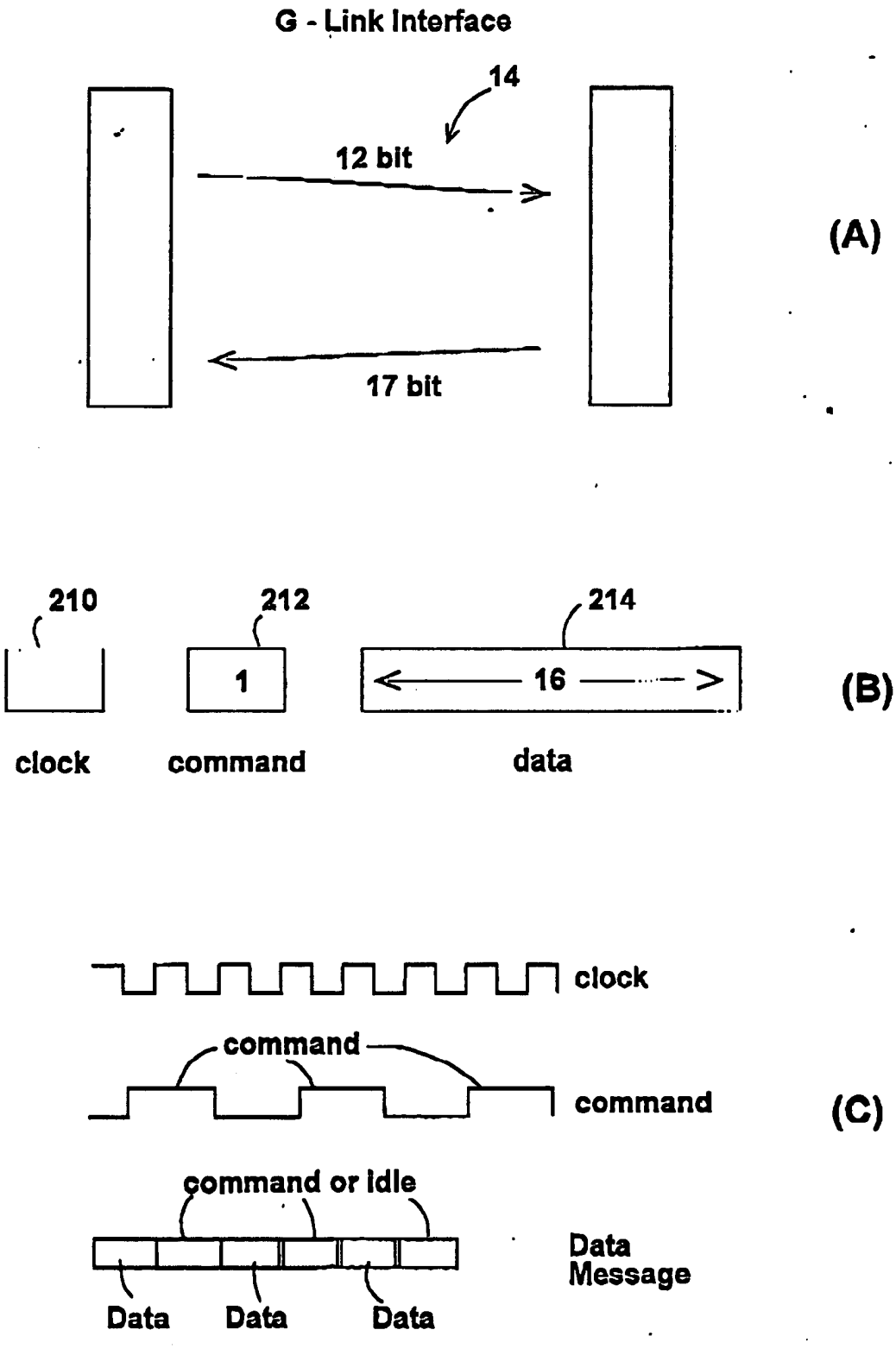

FIG. 6

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.on120 P.16
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7.JUL.1999 17:30

Data Message

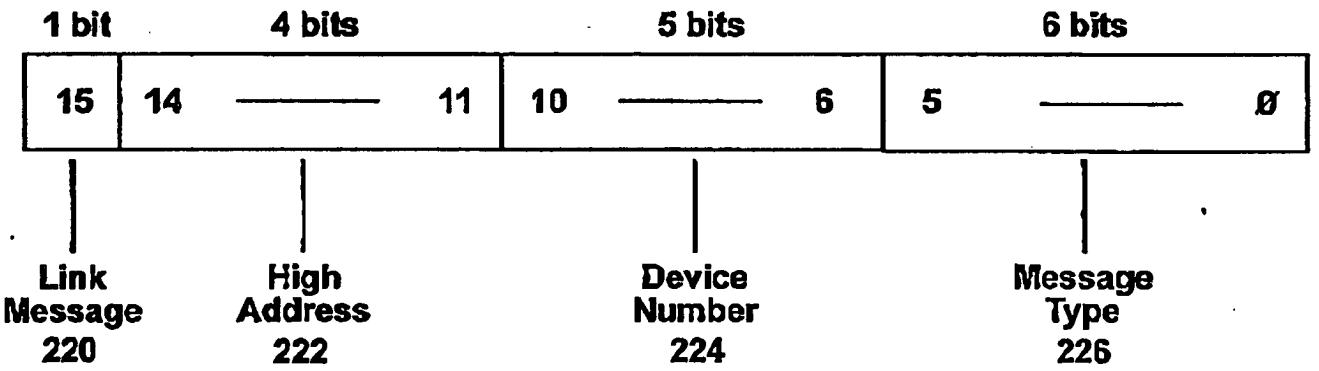

FIG. 7

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